AMENDMENTS TO THE CLAIMS

Claims 1-42 are pending in the instant application.

Listing of claims:

1. (Previously presented) A method for multiple encryption in a multiband multi-protocol hybrid wired/wireless network, the method comprising:

receiving on a first PHY channel of an access point, a request for initiation of a communication session from an originating access device;

authenticating said communication session by authenticating said originating access device using a second PHY channel; and

hosting said communication session over a third PHY channel, said third PHY channel established between said access point and said originating access device.

- 2. (Previously presented) The method according to claim 1, comprising generating at least one encryption/decryption key for use during said communication session.
- 3. (Previously presented) The method according to claim 2, wherein said authenticating comprises requesting authentication information from an authentication server.

- 4. (Previously presented) The method according to claim 3, wherein said authenticating comprises delivering at least a portion of said authentication information received from said authentication server to said originating access device via said second PHY channel.
- 5. (Previously presented) The method according to claim 4, comprising delivering said at least one encryption/decryption key to said originating access device via one of said first PHY channel or said second PHY channel.
- 6. (Previously presented) The method according to claim 1, comprising receiving an identification of said originating access device by said access point.
- 7. (Previously presented) The method according to claim 6, wherein said identity of said originating access device is one or more_of a WEP key, a MAC address, and/or an IP address.
- 8. (Previously presented) The method according to claim 1, comprising acknowledging said received request on said first PHY channel.
- 9. (Previously presented) The method according to claim 1, comprising determining a type of traffic generated by said originating access device on said first PHY channel.

- 10. (Previously presented) The method according to claim 9, comprising generating at least one encryption/decryption key dependent on said determined traffic type.
- 11. (Previously presented) The method according to claim 10, comprising distributing said generated at least one encryption/decryption key via one or both of said second PHY channel and/or said third PHY channel.
- 12. (Previously presented) The method according to claim 1, comprising establishing at least one virtual channel between said originating access device and a terminating access device.
- 13. (Previously presented) The method according to claim 12, comprises tunneling information between said originating access device and said terminating access device.
- 14. (Previously presented) The method according to claim 12, comprising establishing at least a portion of said at least one virtual channel over at least a portion of one of said first PHY channel, said second PHY channel or said third PHY channel.
- 15. (Previously presented) A machine-readable storage, having stored thereon, a computer program having at least one code section for providing

multiple encryption in a multi-band multi-protocol hybrid wired/wireless network, the at least one code section executable by a machine for causing the machine to perform the steps comprising:

receiving on a first PHY channel of an access point, a request for initiation of a communication session from an originating access device;

authenticating said communication session by authenticating said originating access device using a second PHY channel; and

hosting said communication session over a third PHY channel, said third PHY channel established between said access point and said originating access device.

- 16. (Previously presented) The machine-readable storage according to claim 15, comprising code for generating at least one encryption/decryption key for use during said communication session.
- 17. (Previously presented) The machine-readable storage according to claim 16, wherein authenticating code comprises code for requesting authentication information from an authentication server.
- 18. (Previously presented) The machine-readable storage according to claim 17, comprising code for delivering at least a portion of said authentication information received from said authentication server to said originating access device via said second PHY channel.

- 19. (Previously presented) The machine-readable storage according to claim 18, comprising code for delivering said at least one encryption/decryption key to said originating access device via one of said first PHY channel or said second PHY channel.
- 20. (Previously presented) The machine-readable storage according to claim 15, comprising code for receiving an identification of said originating access device by said access point.
- 21. (Previously presented) The machine-readable storage according to claim 20, wherein said identity of said originating access device is one or more of a WEP key, a MAC address, and/or an IP address.
- 22. (Previously presented) The machine-readable storage according to claim 15, comprising code for acknowledging said received request on said first PHY channel.
- 23. (Previously presented) The machine-readable storage according to claim 15, comprising code for determining a type of traffic generated by said originating access device on said first PHY channel.
- 24. (Previously presented) The machine-readable storage according to claim 23, comprising code for generating at least one encryption/decryption key dependent on said determined traffic type.

- 25. (Previously presented) The machine-readable storage according to claim 24, comprising code for distributing said generated at least one encryption/decryption key via one or both_of said second PHY channel and/or said third PHY channel.
- 26. (Previously presented) The machine-readable storage according to claim 15, comprising code for establishing at least one virtual channel between said originating access device and a terminating access device.
- 27. (Previously presented) The machine-readable storage according to claim 26, comprises code for tunneling information between said originating access device and said terminating access device.
- 28. (Previously presented) The machine-readable storage according to claim 26, comprising code for establishing at least a portion of said at least one virtual channel over at least a portion of one of said first PHY channel, said second PHY channel or said third PHY channel.
- 29. (Previously presented) A system for multiple encryption in a multi-band multi-protocol hybrid wired/wireless network, the system comprising:

at least one receiver of an access point adapted to receive on a first PHY channel, a request for initiation of a communication session from an originating access device;

at least one authenticator adapted to authenticate said communication session by authenticating said originating access device using a second PHY channel; and

a third PHY channel being adapted to facilitate hosting of said communication session, said third PHY channel established between said access point and said originating access device.

- 30. (Original) The system according to claim 29, wherein said at least one authenticator is adapted to generate at least one encryption/decryption key for use during said communication session.
- 31. (Original) The system according to claim 30, wherein said at least one authenticator is adapted to receive requests for authentication information.
- 32. (Original) The system according to claim 31, wherein said authenticator is adapted to deliver at least a portion of said authentication information received from said authentication server to said originating access device via said second PHY channel.
- 33. (Previously presented) The system according to claim 32, wherein said at least one authenticator is adapted to deliver said at least one

encryption/decryption key to said originating access device via one of said first PHY channel or said second PHY channel.

- 34. (Original) The system according to claim 29, wherein said at least one receiver is adapted to receive an identification of said originating access device by said access point.
- 35. (Previously presented) The system according to claim 34, wherein said identity of said originating access device is one or more of a WEP key, a MAC address, and/or an IP address.
- 36. (Original) The system according to claim 29, wherein said at least one receiver is adapted to acknowledge said received request on said first PHY channel.
- 37. (Original) The system according to claim 29, wherein said at least one authenticator is adapted to determine a type of traffic generated by said originating access device on said first PHY channel.
- 38. (Original) The system according to claim 37, wherein said at least one authenticator is adapted to generate at least one encryption/decryption key dependent on said determined traffic type.

- 39. (Previously presented) The system according to claim 38, wherein said at least one authenticator is adapted to distribute said generated at least one encryption/decryption key via one or both of said second PHY channel and/or said third PHY channel.
- 40. (Original) The system according to claim 29, wherein said at least one receiver is adapted to establish at least one virtual channel between said originating access device and a terminating access device.
- 41. (Original) The system according to claim 40, wherein said at least one receiver is adapted to tunnel information between said originating access device and said terminating access device.
- 42. (Previously presented) The system according to claim 40, wherein said at least one receiver is adapted to establish at least a portion of said at least one virtual channel over at least a portion of one of said first PHY channel, said second PHY channel or said third PHY channel.